

# DYNISCO MODEL PT449

## Strain Gage Pressure Transducer for Direct Cavity Measurement

### Description

The PT449 transducer is a miniature pressure transducer that mounts directly in the mold, flush with the cavity surface. The transducer does not depend upon knockout pins, thus eliminating pin hangup and improving measurement accuracy. The PT449 is used to measure peak cavity pressure, the most accurate and repeatable way to initiate the holding pressure phase.

### Features

- Mounts flush with cavity
- Sensing tip can be shaped down 0.05"
- Direct contact with material
- Withstands 400°F mold and 600°F melt
- 6 mm sensing area
- Standard 80% shunt calibration

### Benefits

- Can be located close to "end of fill" section of part
- Does not require ejector pin
- Accurate indication of cavity pressure profile
- Ideal for high temperature processes
- Easy installation
- Easy set - up



## Specifications

### Performance Characteristics

**Range (psi):** 0 - 20,000

**Accuracy:**  $\pm 0.5\%$  FSO

**Repeatability:**  $\pm 0.1\%$  FSO

**Maximum pressure:** 150% of full range

**Mounting torque:** 50 inch - lbs.

**Material in contact with pressure media:** 15 - 5 PH and 17 - 4 PH stainless steel

**Mating connector:** P/N712000 provided

**Weight:** 1.5 lbs.

### Electrical Characteristics

**Configuration:** Four active arm bonded Wheatstone bridge strain gage

**Bridge resistance:** 350 Ohms nominal

**Full scale output:** 1.5 to 1.6 mV/V full scale

**Zero balance:**  $\pm 5.0\%$  full scale

**Excitation:** 6 VDC recommended, 10 VDC maximum

**Shunt calibration (R-Cal):** Internal 80% FSO  $\pm 1.0\%$

**Insulation resistance:** 1,000 megohms at 50 VDC

### Temperature Characteristics

**Maximum temperature:** 400°F (204°C) mold temperature and

600°F (315°C) melt temperature

**Zero shift due to temperature change:** 0.02% full scale/°F maximum

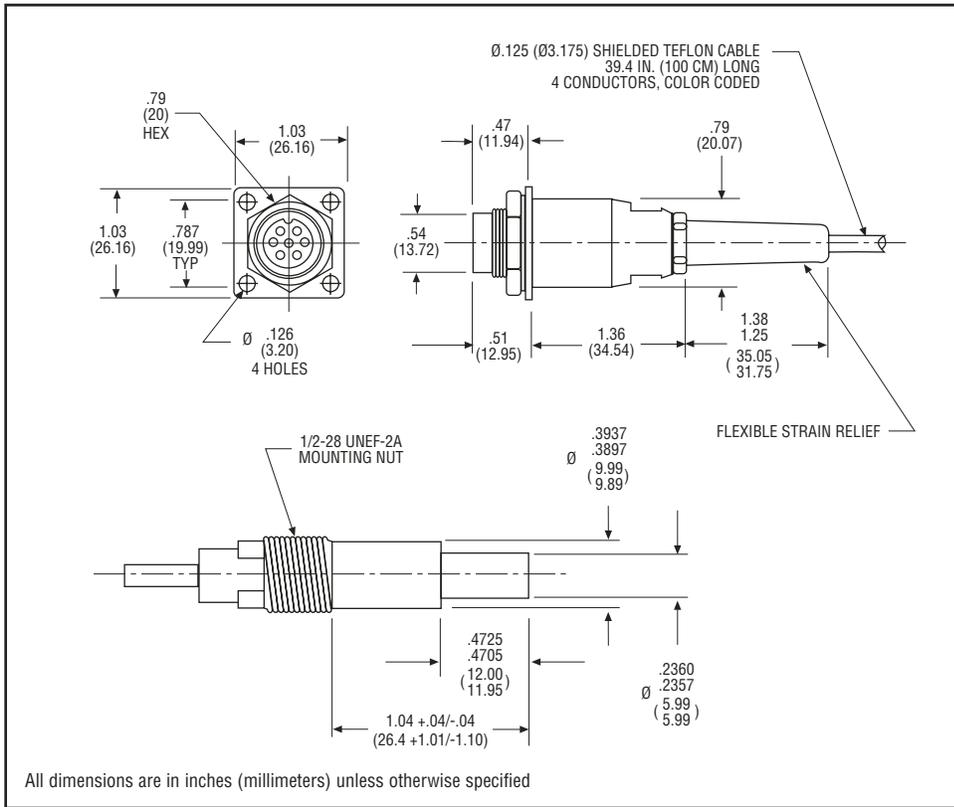
(0.04% full scale/°C)

**Sensitivity shift due to temperature change:** 0.02% full scale/°F maximum

(0.04% full scale/°C)

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### Ordering Guide

Model	Sensing Area		Pressure Range (psi)	
	Code	Diameter	Code	Range
PT449		6 mm	20M	0 - 20,000

Ordering Examples: PT449 - 20M

- Mating connector provided, cable assembly P/N802020 sold separately.

### Delivery

Please call for specific delivery information.